

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 55684 PCT sb	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/SE 2004/000921	International filing date (day/month/year) 11 June 2004
Applicant Alfa Laval Corporate AB et al	(Earliest) Priority Date (day/month/year) 18 June 2003

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. Certain claims were found unsearchable (see Box No. II)

3. Unity of invention is lacking (see Box No. III)

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 3

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

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INTERNATIONAL SEARCH REPORTInternational application No.
PCT/SE 2004/000921

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: F28F 9/00, F28D 9/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: F28D, F28F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE, DK, FI, NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 9745689 A1 (NEK UMWELTTECHNIK AG), 4 December 1997 (04.12.1997) --	
A	US 6158238 A (M. LAMPINEN ET AL), 12 December 2000 (12.12.2000) -- -----	

Further documents are listed in the continuation of Box C.

See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

21 Sept 2004

Date of mailing of the international search report

23 -09- 2004

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INTERNATIONAL SEARCH REPORT

Information on patent family members

03/09/2004

International application No.

PCT/SE 2004/000921

WO	9745689	A1	04/12/1997	AT	189924 T	15/03/2000
				DE	59701152 D	00/00/0000
				EP	0901602 A,B	17/03/1999
US	6158238	A	12/12/2000	AU	4120197 A	26/03/1998
				CA	2264856 A	12/03/1998
				CN	1114087 B	09/07/2003
				CN	1231722 A	13/10/1999
				EP	0960313 A	01/12/1999
				FI	106577 B	00/00/0000
				FI	963470 A	05/03/1998
				JP	2000517410 T	26/12/2000
				PL	185175 B	31/03/2003
				PL	332005 A	16/08/1999
				WO	9810233 A	12/03/1998